



Institute for form 1449A/PTO U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use as many sheets as necessary)				ATTY. DOCKET NO.: 5889.12		APPLICATION NO.: 10/022,137	
				FIRST NAMED INVENTOR: Brian T. BOYD			
				FILING DATE: December 12, 2001		ART UNIT: 1746	
Sheet	3	of	3	EXAMINER NAME: Not Yet Assigned			

RECEIVED  
JAN - 2 2003  
TC 1700

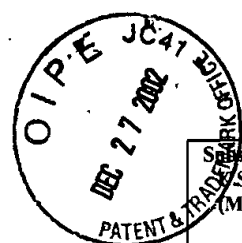
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

EXAMINER INITIALS <sup>1</sup>	Cite No. <sup>1</sup>	DOCUMENT NUMBER	PUBLICATION DATE	Name of PATENTEE or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>2</sup> - Number <sup>3</sup> - Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			
BMA	B1	DE 40 16 157 A1 ✓	12-13-1990	ASEA BROWN BOVERI AG		X
	B2	DE 196 53 034 A1 ✓	07-02-1998	SCHULZE, DIRK		X
	B3	DE 198 05 142 A ✓	08-12-1999	SIEMENS AG		X
	B4	EP 0 048 559 A2 ✓	03-31-1982	GENERAL ELECTRIC COMPANY		
	B5	EP 0 342 169 A2 ✓	11-15-1989	PERMELEC ELECTRODE LTD.		
	B6	EP 0 822 271 A3 ✓	04-02-1998	FISCHER LABOR- und Verhenren Technik GmbH		X
	B7	EP 0 822 271 A2 ✓	07-31-1997	FISCHER LABOR- und Verhenren Technik GmbH		
	B8	EP 0 884 794 A1 ✓	12-16-1998	PEUGEOT; CITROEN SA (FR)		X
	B9	EP 1 009 051 A2 ✓	06-14-2000	GEN MOTORS CORP		
	B10	FR 2 041 731 A ✓	02-05-1971	COMP GENERALE D'ELECTRICITE		
	B11	JP 05029001 A ✓	02-05-1993	MITSUBISHI HEAVY IND LTD		X
	B12	JP 05109415 A ✓	04-30-1993	MITSUBISHI HEAVY IND LTD		X
	B13	JP 60-074359 A ✓	04-26-1985	ITSUI ZOSEN KK		X
	B14	JP 2002-532236 A ✓	10/02/2002	LYNNTECH, INC.		
	B15	WO 01/35755 A1 ✓	05-25-2001	CYCLOPSS CORPORATION		
	B16	WO 90/14312 ✓	11-29-1990	ECO PURIFICATION SYSTEMS B.V.		
	B17	WO 97/25369 ✓	07-17-1997	BALLARD POWER SYSTEMS		
	B18	WO 97/41168 ✓	11-06-1997	W.L. GORE & ASSOCIATES INC.		
	B19	WO 98/33221 A ✓	07-30-1998	LYNNTECH, INC.		
	B20	WO 98/42617 ✓	10-01-1998	LYNNTECH, INC.		
EXAMINER SIGNATURE		Betsy M. Hoey		DATE CONSIDERED	2/24/03	

\* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.

next communication to applicant. <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov/MPEP901.04](http://www.uspto.gov/MPEP901.04). <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449A/PTO U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use as many sheets as necessary)				ATTY. DOCKET NO.: 5889.12		APPLICATION NO.: 10/022,137	
				FIRST NAMED INVENTOR: Brian T. BOYD			
				FILING DATE: December 12, 2001		ART UNIT: 1746	
Sheet 1		of 3		EXAMINER NAME: Not Yet Assigned			

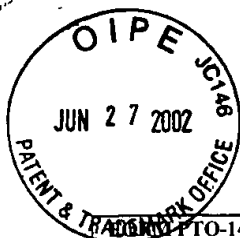
## U.S. PATENT DOCUMENTS

EXAMINER INITIALS*	Cite No. <sup>1</sup>	DOCUMENT NUMBER	PUBLICATION DATE	Name of PATENTEE or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (If known)	MM-DD-YYYY		
Bmta	A	US-3,126,302	03-24-1964	DRUSHELLA	
	B	US-3,617,385	11-02-1971	GRAY	
	C	US-3,717,505	02-20-1973	UNKLE et al.	
	D	US-4,416,747	11-22-1983	MENTH et al.	
	E	US-4,720,334	01-19-1988	DUBOIS et al.	
	F	US-4,759,847	07-26-1988	MEDBURY	
	G	US-4,759,849	07-26-1988	BAUMANN et al.	
	H	US-4,836,929	06-06-1989	BAUMANN et al.	
	I	US-4,978,438	12-18-1990	SHIMAMUNE et al.	
	J	US-5,083,442	01-28-1992	VLOCK	
	K	US-5,094,734	03-10-1992	TORRADO	
	L	US-5,097,556	03-24-1992	ENGEL et al.	
	M	US-5,114,549	05-19-1992	SHIMAMUNE et al.	
	N	US-5,121,612	06-16-1992	GUAY et al.	
	O	US-5,135,645	08-04-1992	SKLENAK et al.	
	P	US-5,158,454	10-27-1992	VIEBAHN et al.	
	Q	US-5,236,595	08-17-1993	WANG et al.	
	R	US-5,266,215	11-30-1993	ENGELHARD	
	S	US-5,315,845	05-31-1994	LEE	
	T	US-5,433,866	07-18-1995	HOPPE et al.	
	U	US-5,447,636	09-05-1995	BANERJEE	
	V	US-5,464,480	11-07-1995	MATTHEWS	
	W	US-5,498,347	03-12-1996	RICHARD	
	X	US-5,505,856	04-09-1996	CAMPEN et al.	
	Y	US-5,542,264	08-06-1996	HORTIN et al.	
	Z	US-5,547,584	08-20-1996	CAPECHART	
	AA	US-5,582,717	12-10-1996	DI SANTO	
	AB	US-5,593,598	01-14-1997	MCGINNESS, et al.	
	AC	US-5,618,492	04-08-1997	AUTEN et al.	
	AD	US-5,626,769	05-06-1997	SAWAMOTO	
	AE	US-5,653,877	08-05-1997	MARK	
	AF	US-5,654,109	08-05-1997	PLOWMAN et al.	
	AG	US-5,656,246	08-12-1997	PATAPOFF et al.	
	AH	US-5,682,671	11-04-1997	LUND et al.	
	AI	US-5,683,576	11-04-1997	OLSEN	

EXAMINER SIGNATURE	<i>Betsy M. Hoy</i>	DATE CONSIDERED	2/24/03
-----------------------	---------------------	--------------------	---------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.



3

PTO-1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO. 5889.12	SERIAL NO. 10/022,137
	APPLICANT: Brian T. BOYD et al.	
	FILING DATE December 12, 2001	GROUP 1746

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Bma	D280077	08/13/85	Lemaire	D9	372	
	D287936	01/27/87	Mills et al.	D9	372	
	D311863	11/06/90	Vola	D9	370	
	D330758	11/03/92	Muderlak	D23	366	
	D380822	07/08/97	Decker et al.	D23	366	
	D453373	02/05/02	Drake et al.	D23	366	
	D456246	04/30/02	Drake et al.	D9	337	
	1975424	10/02/34	John	204	32	
	1975426	10/02/34	John	204	32	
	2212109	08/20/40	Abraham	62	89	
	2334377	11/16/43	Bennett	204	312	
	3195719	7/20/65	Giesler	206	47	
	3401858	09/17/68	White et al.	224	48	
	3421836	01/14/69	Sundin et al.	21	53	
	3495699	02/17/70	Giesler	206	45.14	
	3600740	08/24/71	Ogier	15	257	
	3742301	06/26/73	Burris	317	4	
	3823728	07/16/74	Burris	137	88	
	4019986	04/26/77	Burris et al.	210	139	
	4219035	08/26/80	Deconinck	132	84 D	
	4555335	11/26/85	Burris	210	192	
	4684585	08/04/87	Tamminen	429	69	
	4732274	03/22/88	Bouton	206	561	
	4801375	01/31/89	Padilla	210	100	
	4904289	02/27/90	Miyakami et al.	62	157	
	5087426	02/11/92	Inoue et al.	422	123	
	5145350	09/08/92	Dawson et al.	422	186.15	
	5154807	10/13/92	Harvey	204	131	
	5154895	10/13/92	Moon	422	186.07	
	5250370	10/05/93	Faris	429	68	
	5316740	05/31/94	Baker et al.	422	186.07	
	5316741	05/31/94	Sewell et al.	422	186.21	
	5460705	10/24/95	Murphy et al.	204	252	
	5512384	04/30/96	Celeste et al.	429	51	
	5536592	07/16/96	Celeste et al.	429	68	
	5614332	03/25/97	Pavelle et al.	429	68	
	5712061	01/27/98	Spak et al.	429	208	
Bma	5756228	05/26/98	Roseanou	429	68	



10/022,137

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BMA	5770033	06/01/23/98	Murphy et al.	205	464	
	5788930	08/04/98	McMurray	422	121	
	5824243	10/20/98	Contreras	261	36.1	
	5858283	01/12/99	Burris	261	122.1	
	5946919	09/07/99	McKinney et al.	62	3.7	
	5972196	10/26/99	Murphy et al.	205	466	
	5989407	11/23/99	Andrews et al.	205	626	
	6120822	09/19/00	Denvir et al.	426	320	
	6200618B1	03/13/01	Smith et al.	426	320	
	6206260B1	03/27/01	Covell et al.	224	539	
BMA	6287431B1	09/11/01	Murphy et al.	204	258	

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
BMA	EP 1 038 993 A1	09/27/00	EP				
	WO 98/42617	10/01/98	PCT				
	WO 01/35755 A1	05/25/01	PCT				
BMA	WO 00/35813	06/22/00	PCT				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BMA	http://www.quickpure.com, Alab, LLC website (last visited November 26, 1999).
*	<del>http://www.rdmag.com, R&amp;D Magazine Online, "Making Impes Shapes" (July 1999).</del>
EXAMINER	Betsey M. Hoey
DATE CONSIDERED	2/24/03
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

\* not readable

Substitute for form 1449A/PTO U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				ATTY. DOCKET NO.: 5889.12		APPLICATION NO.: 10/022,137	
				FIRST NAMED INVENTOR: Brian T. BOYD			
				FILING DATE: December 12, 2001		ART UNIT: 1746	
Sheet	1	of	1	EXAMINER NAME: HOEY, Betsey Morrison			

RECEIVED  
 FEB 12 2003  
 TC 1700

U.S. PATENT DOCUMENTS

EXAMINER INITIALS*	Cite No. <sup>1</sup>	DOCUMENT NUMBER	PUBLICATION DATE	Name of PATENTEE or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY		
BMA	A	6,365,026 B1	04/02/2002	ANDREWS et al.	
BMA	B	5,958,619 A	09/28/1999	CELESTE et al.	

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

EXAMINER INITIALS*	Cite No. <sup>1</sup>	DOCUMENT NUMBER	PUBLICATION DATE	Name of PATENTEE or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			
BMA	C	EP 1 038 993 A	09/27/000	SHINKO PLANT CONSTRUCTION CO LTD et al.		
	D	JP 01-183071 A	07-20-1989	MEIDENSHA CORP		X
	E	DE 198 23 880 A1	12-10-1998	MOTOROLA INC		
BMA	F	GB 2 326 017 A	12-09-1998	MOTOROLA INC		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIALS*	Cite No. <sup>2</sup>	(Include name of Author ) in CAPITAL LETTERS), Title of article (when appropriate, title of the item (book, magazine, journal, serial symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published)	T <sup>3</sup>
EXAMINER SIGNATURE	Betsey M. Hoey		DATE CONSIDERED 2/24/03

\* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.